United Nations ST/SG/SER.E/709

Secretariat

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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 8 April 2014 from the Permanent Mission of the Russian Federation to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the Russian Federation to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration data on space launches by the Russian Federation for the period from November 2013 to January 2014 and also on the space objects that ceased to exist during that period (see annexes I-III).

V.14-02754 (E) 120514 130514

Please recycle

Annex I

Registration data on space launches by the Russian Federation for November 2013*

1. In November 2013, the following space objects under the jurisdiction and control of the Russian Federation were launched:

Number	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Apogee (km)	*Perigee (km)*	*Inclination (degrees)*	*Period (minutes)*	
3375-2013-014	Soyuz TMA-11M, launched by a Soyuz-FG carrier rocket from the Baikonur launch site	7 November	243	200	51.7	88.6	Delivery to the International Space Station of the crew of Expeditions 38 and 39, consisting of Mikhail Tyurin (Russian Federation), commander, and Richard Mastracchio (United States of America) and Koichi Wakata (Japan), flight engineers
3376-2013-015	Raduga-1M, launched by a Proton-M carrier rocket with a Breeze-M booster from the Baikonur launch site	12 November	35 796	35 776	0.0	23 hours, 56 minutes	Intended for assignments on behalf of the Ministry of Defence of the Russian Federation
3377-2013-016	Progress M-20M, launched by a Soyuz-U carrier rocket from the Baikonur launch site	26 November	237	193	51.7	88.7	Delivery to the International Space Station of fuel, water, oxygen, air, food and other consumable materials required for manned operation of the Station

2. In November 2013, the Russian Federation launched the following space objects on behalf of foreign clients:

On 21 November 2013, the following 23 small satellites were launched by an RS-20B intercontinental ballistic missile from the Dombarovsky launch base: DubaiSat-2 (Earth remote sensing, United Arab Emirates); STSAT-3 (Republic of Korea); UniSat-5 (technological applications, Italy); SkySat-1 (Earth remote sensing, United States); AprizeSat 7 and AprizeSat 8 (communications, United States); BRITE-PL1 (astronomy, Poland); GOMX-1 (technological applications, Denmark); WNISAT 1 (meteorology, Japan); HiNCube (technological applications, Norway); FUNcube, Triton 1, Delfi-n3Xt

* The registration data are reproduced in the form in which they were received.

(technological applications, Netherlands); VELOX-PII (technological applications, Singapore); First-MOVE, UWE-3 (technological applications, Germany); ZACUBE-1 (technological applications, South Africa); NEE-02 KRYSAOR (technological applications, Ecuador); CubeBug-2 (technological applications, Argentina); KHUSAT-1, KHUSAT-2 (research, Republic of Korea); OPTOS (technological applications, Spain); Dove-3 (Earth remote sensing, United States); and attached payload BPA-3 (technological applications, Ukraine).

On 22 November 2013, three Swarm space objects (European Space Agency), intended for scientific research (study of the magnetic field of the Earth), were launched by a Rokot carrier rocket from the Plesetsk launch site.

3. The following space object ceased to exist in November 2013 and was no longer in Earth orbit as at 2400 hours Moscow time on 30 November 2013:

2013-025A (Soyuz TMA-09M), which landed on 11 November 2013.

Annex II

Registration data on space launches by the Russian Federation for December 2013*

1. In December 2013, the following space objects under the jurisdiction and control of the Russian Federation were launched:

Number	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Apogee (km)	*Perigee (km)*	*Inclination (degrees)*	*Period (minutes)*	
3378-2013-017	Cosmos-2488[a]	25 December	1 505	1 495	82.5	114	Intended for assignments on behalf of the Ministry of Defence of the Russian Federation
3379-2013-017	Cosmos-2489[a]	25 December	1 505	1 495	82.5	114	Intended for assignments on behalf of the Ministry of Defence of the Russian Federation
3380-2013-017	Cosmos-2490[a]	25 December	1 505	1 495	82.5	114	Intended for assignments on behalf of the Ministry of Defence of the Russian Federation
3381-2013-017	Cosmos-2491[a]	25 December	1 505	1 495	82.5	114	Intended for assignments on behalf of the Ministry of Defence of the Russian Federation
3382-2013-018	Express-AM5, launched by a Proton-M carrier rocket with a Breeze-M booster from the Baikonur launch site	26 December	37 800	33 800	0.1	23 hours, 57 minutes	Telecommunications satellite
3383-2013-019	Aist[b]	28 December	638.9	612.3	82.3	97	Science and education
3384-2013-019	SKRL 756[b]	28 December	638.9	612.3	82.3	97	Radar calibration
3385-2013-019	SKRL 756[b]	28 December	638.9	612.3	82.3	97	Radar calibration

[a] Space objects launched by a single Rokot carrier rocket from the Plesetsk launch site.

[b] Space objects launched by a single Soyuz-2.1v carrier rocket with a Volga upper stage from the Plesetsk launch site.

2. In December 2013, the Russian Federation launched the following space object on behalf of a foreign client:

On 8 December 2013, Inmarsat-5 F1 (United Kingdom of Great Britain and Northern Ireland), a telecommunications satellite, was launched by a Proton-M carrier rocket with a Breeze-M booster from the Baikonur launch site.

* The registration data are reproduced in the form in which they were received.

3. The following space objects ceased to exist in December 2013 and were no longer in Earth orbit as at 2400 hours Moscow time on 31 December 2013:

2002-059A (Cosmos-2393), which burned up on 21 December 2013;

1993-049A (Molniya-3), which burned up on 31 December 2013.

Annex III

Registration data on space launches by the Russian Federation for January 2014*

1. In January 2014, no space objects under the jurisdiction and control of the Russian Federation were launched.

2. In January 2014, no space objects were launched by the Russian Federation on behalf of foreign clients.

3. As at 2400 hours Moscow time on 31 January 2014, no space objects of the Russian Federation had been found to have ceased to exist in Earth orbit in January 2014.

* The registration data are reproduced in the form in which they were received.

United Nations ST/SG/SER.E/710

Secretariat

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28 April 2014
English
Original: Spanish

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Letter dated 27 July 2011 from the Permanent Mission of Argentina to the United Nations addressed to the Secretary-General

The Permanent Mission of Argentina to the United Nations has the honour to transmit, in accordance with article IV, paragraph 2, of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), information concerning Argentine space object SAC-D/Aquarius, which was launched on 10 June 2011 (see annex).

[*Signed*] Diego **Limeres**
Minister
Alternate Permanent Representative

V.14-02621 (E) 060514 070514

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Annex

Registration data on a space object launched by Argentina*

SAC-D/Aquarius

Name of space object:	SAC-D/Aquarius
Registration number:	RA 6
Date of launch:	10 June 2011
Location of launch:	Vandenberg Air Force Base, California, United States of America
Operator of space object:	National Commission for Space Activities
Basic orbital parameters	
Nodal period:	98 minutes
Inclination:	98.008 degrees
Apogee:	668.4 kilometres
Perigee:	651.5 kilometres
Launch vehicle:	Boeing Delta II
Launching authority:	National Aeronautics and Space Administration (United States of America)
General function of space object:	Scientific and Earth observation satellite

* The registration data are reproduced in the form in which they were received.

United Nations ST/SG/SER.E/711

Secretariat

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29 May 2014

Original: English

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 5 May 2014 from the Permanent Mission of the United States of America to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the United States of America to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration data on objects launched into outer space by the United States for the period from July to September 2012 (see annexes I-III).

The United States requests that the space objects contained in the annexes to this document be placed on the Register of Objects Launched into Outer Space maintained by the United Nations. In submitting this request, the United States notes that, consistent with its longstanding registration practice, the United States is not necessarily a launching State for each of the space objects it registers. The United States makes this request in the spirit of contributing to the practical effectiveness of the treaties and is providing information to the greatest extent practicable.

V.14-03548 (E) 050614 060614

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Annex I

Registration data on space launches by the United States of America for July 2012*

The following report supplements the registration data on United States space launches as at 31 July 2012. All launches were made from the territory of the United States unless otherwise specified.

International designation	*Name of the space object*	*Date of the launch*	*Location of the launch*	*Basic orbital characteristics*				*General function of the space object*
				Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects were launched since the last report and remain in orbit:								
2012-035A	Echostar 17	5 July 2012	Kourou, French Guiana	632.7	5.9	35 808	262	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
The following objects not previously reported have been identified since the last report: None.								
The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 31 July 2012: None.								
The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 31 July 2012: None.								
The following objects identified in a previous report were no longer in orbit as at 2359Z on 31 July 2012: 2012-019B								
The following objects were launched since the last report but did not achieve orbit: None.								
Revisions that should be made to previously reported data: None.								

* The registration data are reproduced in the form in which they were received.

Annex II

Registration data on space launches by the United States of America for August 2012*

The following report supplements the registration data on United States space launches as at 31 August 2012. All launches were made from the territory of the United States unless otherwise specified.

International designation	*Name of the space object*	*Date of the launch*	*Location of the launch*	*Basic orbital characteristics*				*General function of the space object*
				Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects were launched since the last report and remain in orbit:								
2012-043A	Intelsat 20	2 August 2012	–	632.0	5.6	35 781	254	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-045A	Intelsat 21	19 August 2012	–	632.1	0.2	35 585	457	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-045B	Block DM-SL R/B	19 August 2012	–	632.1	0.2	35 585	457	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2012-046A	RBSP A	30 August 2012	–	359.2	10.1	30 667	579	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-046B	RBSP B	30 August 2012	–	359.1	10.0	30 715	601	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

The following objects not previously reported have been identified since the last report:

None.

The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 31 August 2012:

None.

* The registration data are reproduced in the form in which they were received.

International designation	*Name of the space object*	*Date of the launch*	*Location of the launch*	*Basic orbital characteristics*				*General function of the space object*
				Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 31 August 2012:								
2012-046C	Centaur R/B	30 August 2012	–	628.5	10.3	36 012	200	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects

The following objects identified in a previous report were no longer in orbit as at 2359Z on 31 August 2012:

1972-076A, 1978-020B, 2009-028B

The following objects were launched since the last report but did not achieve orbit:

None.

Revisions that should be made to previously reported data:

None.

Annex III

Registration data on space launches by the United States of America for September 2012*

The following report supplements the registration data on United States space launches as at 30 September 2012. All launches were made from the territory of the United States unless otherwise specified.

International designation	*Name of the space object*	*Date of the launch*	*Location of the launch*	*Basic orbital characteristics*				*General function of the space object*
				Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects were launched since the last report and remain in orbit:								
2012-048A	USA 238	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048B	SMDC ONE 1.2	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048C	Aeneas	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048D	CSSWE	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048E	CXBN	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048F	CP5	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048G	CINEMA	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

* The registration data are reproduced in the form in which they were received.

International designation	*Name of the space object*	*Date of the launch*	*Location of the launch*	*Basic orbital characteristics*				*General function of the space object*
				Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
2012-048H	RE	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048J	SMDC ONE 1.1	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048K	Aerocube 4.5A	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048L	Aerocube 4.5B	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048M	Aerocube 4	13 September 2012	–	100.4	64.5	1 051	511	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-048N	Centaur R/B	13 September 2012	–	100.4	64.5	1 051	511	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects

The following objects not previously reported have been identified since the last report:

None.

The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 30 September 2012:

None.

The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 30 September 2012:

None.

The following objects identified in a previous report were no longer in orbit as at 2359Z on 30 September 2012:

None.

The following objects were launched since the last report but did not achieve orbit:

None.

Revisions that should be made to previously reported data:

None.

United Nations ST/SG/SER.E/712

Secretariat

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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 12 May 2014 from the Permanent Mission of the Russian Federation to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the Russian Federation to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration data on space launches by the Russian Federation in February and March 2014 and also on the space objects that ceased to exist during that period (see annexes I and II).

V.14-04242 (E) 030714 040714

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Annex I

Registration data on space launches by the Russian Federation for February 2014*

1. In February 2014, the following space object under the jurisdiction and control of the Russian Federation was launched:

			Basic orbital characteristics				
Number	*Name of space object*	*Date of launch*	*Apogee (km)*	*Perigee (km)*	*Inclination (degrees)*	*Period (minutes)*	*General function of space object*
3386-2014-001	Progress M-22M, launched by a Soyuz-U carrier rocket from the Baikonur launch site	5 February	229	188	51.6	88.6	Delivery to the International Space Station of fuel, water, oxygen, air, food and other consumable materials required for manned operation of the Station

2. In February 2014, the Russian Federation launched the following space object on behalf of a foreign client:

On 15 February 2014, the Turksat 4A telecommunications satellite (Turkey) was launched from the Baikonur launch site by a Proton-M carrier rocket with a Breeze-M booster.

3. The following space object ceased to exist in February 2014 and was no longer in Earth orbit as at 2400 hours Moscow time on 28 February 2014:

2013-039A (Progress M-20M), deorbited into the Pacific Ocean at a predetermined location on 11 February 2014; fragments of the space object that had not burned up were sunk.

* The registration data are reproduced in the form in which they were received.

Annex II

Registration data on space launches by the Russian Federation for March 2014*

1. In March 2014, the following space objects under the jurisdiction and control of the Russian Federation were launched:

Number	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Apogee (km)	*Perigee (km)*	*Inclination (degrees)*	*Period (minutes)*	
3387-2014-002	Express-AT1[a]	16 March	35 903	35 701	0.1	1 441	Telecommunications satellite
3388-2014-002	Express-AT2[a]	16 March	35 859	35 564	0.1	1 440	Telecommunications satellite
3389-2014-003	Cosmos-2492, launched by a Soyuz-2.1b carrier rocket with a Fregat booster from the Plesetsk launch site	24 March	19 153	19 128	64.8	675	Work on the Global Navigation Satellite System (GLONASS)
3390-2014-004	Soyuz TMA-12M, launched by a Soyuz-FG carrier rocket from the Baikonur launch site	26 March	262	200	51.7	88.1	Delivery to the International Space Station of the crew of Expeditions 39 and 40, consisting of Aleksei Skvortsov (Russian Federation), commander, and Oleg Artemyev (Russian Federation) and Steven Swanson (United States of America), flight engineers

[a] Space objects launched by a single Proton-M carrier rocket with a Breeze-M booster from the Baikonur launch site.

2. In March 2014, the Russian Federation did not launch any space objects on behalf of foreign clients.

3. The following space object ceased to exist in March 2014 and was no longer in Earth orbit as at 2400 hours Moscow time on 31 March 2014:

2013-054A (Soyuz TMA-10M), which landed at a predetermined location with members of International Space Station Expedition 39 on 11 March 2014.

* The registration data are reproduced in the form in which they were received.

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United Nations ST/SG/SER.E/713

Secretariat

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24 June 2014

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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 13 May 2014 from the Permanent Mission of the United States of America to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the United States of America to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration data on objects launched into outer space by the United States for the period from October to December 2012 (see annexes I-III).

The United States requests that the space objects contained in the annexes to this document be placed on the Register of Objects Launched into Outer Space maintained by the United Nations. In submitting this request, the United States notes that, consistent with its longstanding registration practice, the United States is not necessarily a launching State for each of the space objects it registers. The United States makes this request in the spirit of contributing to the practical effectiveness of the treaties and is providing information to the greatest extent practicable.

V.14-04260 (E) 030714 040714

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Annex I

Registration data on space launches by the United States of America for October 2012*

The following report supplements the registration data on United States space launches as at 31 October 2012. All launches were made from the territory of the United States unless otherwise specified.

International designation	*Name of the space object*	*Date of the launch*	*Location of the launch*	*Basic orbital characteristics*				*General function of the space object*
				Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects were launched since the last report and remain in orbit:								
2012-053A	Navstar 67	4 October 2012	–	359.0	43.3	20 395	240	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-053B	Delta 4 R/B	4 October 2012	–	758.7	54.6	21 963	20 399	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1998-067CQ	Tech-Ed-Sat	4 October 2012	International Space Station: Kibo	92.6	51.6	410	391	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
The following objects not previously reported have been identified since the last report:								
None.								
The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 31 October 2012:								
None.								
The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 31 October 2012:								
2012-054A	Dragon CRS-1	8 October 2012	–	89.8	51.7	336	213	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-054B	Orbcomm OG2	8 October 2012	–	89.8	51.7	332	212	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2012-054C	Falcon 9 R/B	8 October 2012	–	89.4	51.7	321	213	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects

* The registration data are reproduced in the form in which they were received.

International designation	*Name of the space object*	*Date of the launch*	*Location of the launch*	*Basic orbital characteristics*				*General function of the space object*
				Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	

The following objects identified in a previous report were no longer in orbit as at 2359Z on 31 October 2012:

None.

The following objects were launched since the last report but did not achieve orbit:

None.

Revisions that should be made to previously reported data:

None.

Annex II

Registration data on space launches by the United States of America for November 2012*

The following report supplements the registration data on United States space launches as at 30 November 2012. All launches were made from the territory of the United States unless otherwise specified.

International designation	*Name of the space object*	*Date of the launch*	*Location of the launch*	*Basic orbital characteristics*				*General function of the space object*
				Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects were launched since the last report and remain in orbit:								
2012-065A	Echostar 16	20 November 2012	Baikonur, Kazakhstan	141.8	50.3	4 993	266	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

The following objects not previously reported have been identified since the last report:

None.

The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 30 November 2012:

None.

The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 30 November 2012:

None.

The following objects identified in a previous report were no longer in orbit as at 2359Z on 30 November 2012:

1992-038A

The following objects were launched since the last report but did not achieve orbit:

None.

Revisions that should be made to previously reported data:

None.

* The registration data are reproduced in the form in which they were received.

Annex III

Registration data on space launches by the United States of America for December 2012*

The following report supplements the registration data on United States space launches as at 31 December 2012. All launches were made from the territory of the United States unless otherwise specified.

International designation	*Name of the space object*	*Date of the launch*	*Location of the launch*	*Basic orbital characteristics*				*General function of the space object*
				Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects were launched since the last report and remain in orbit:								
2012-071A	OTV 3	11 December 2012	–	91.5	43.5	356	349	Reusable space transportation systems
The following objects not previously reported have been identified since the last report:								
None.								
The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 31 December 2012:								
None.								
The following objects achieved orbit since the last report but were no longer in orbit as at 2359Z on 31 December 2012:								
None.								
The following objects identified in a previous report were no longer in orbit as at 2359Z on 31 December 2012:								
None.								
The following objects were launched since the last report but did not achieve orbit:								
None.								
Revisions that should be made to previously reported data:								
None.								

* The registration data are reproduced in the form in which they were received.

United Nations ST/SG/SER.E/714

Secretariat

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15 July 2014
English
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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 19 May 2014 from the Permanent Mission of China to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of China to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex) and General Assembly resolution 62/101, has the honour to transmit information concerning space objects launched by China for the period from 2012 to 2014 (see annex).

V.14-04721 (E) 220714 230714

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Annex

Registration data on space objects launched by China*

Ziyuan 3-01

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Ziyuan 3-01
National designator/registration number as used by the State of registry:	ZY-3A
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	9 January 2012
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	97.7 minutes
Inclination:	97.4 degrees
Apogee:	500 kilometres
Perigee:	500 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4B

Fengyun 2F

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Fengyun 2F
National designator/registration number as used by the State of registry:	FY-2F
State of registry:	China

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

Date and territory or location of the launch	
Date of the launch:	13 January 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	-
Inclination:	2.3 degrees
Apogee:	36,020 kilometres
Perigee:	200 kilometres
General function of the space object:	Meteorological satellite

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3A

Beidou-11

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Eleventh satellite of the Beidou satellite navigation system
National designator/registration number as used by the State of registry:	Beidou-11
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	25 February 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	-
Inclination:	-
Apogee:	-
Perigee:	-
General function of the space object:	Navigation

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3C

Beidou-12

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Twelfth satellite of the Beidou satellite navigation system
National designator/registration number as used by the State of registry:	Beidou-12
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	30 April 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	774 minutes
Inclination:	55 degrees
Apogee:	21,528 kilometres
Perigee:	21,528 kilometres
General function of the space object:	Navigation

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3B

Beidou-13

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Thirteenth satellite of the Beidou satellite navigation system
National designator/registration number as used by the State of registry:	Beidou-13
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	30 April 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	774 minutes

Inclination:	55 degrees
Apogee:	21,528 kilometres
Perigee:	21,528 kilometres
General function of the space object:	Navigation

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3B

Tianhui 1-02

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Tianhui 1-02
National designator/registration number as used by the State of registry:	Tianhui-1B
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	6 May 2012
Territory or location of the launch:	Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	94.4 minutes
Inclination:	97.3 degrees
Apogee:	500 kilometres
Perigee:	500 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 2D

Yaogan 14

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Yaogan 14
National designator/registration number as used by the State of registry:	YG-14
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	10 May 2012
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	94.1 minutes
Inclination:	97.3 degrees
Apogee:	479.4 kilometres
Perigee:	479.4 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4C

Zhongxing 2A

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Zhongxing 2A
National designator/registration number as used by the State of registry:	Chinasat-2A
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	26 May 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	-
Inclination:	-

Apogee:	-
Perigee:	-
General function of the space object:	Communications and broadcasting

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3B

Yaogan 15

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Yaogan 15
National designator/registration number as used by the State of registry:	YG-15
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	29 May 2012
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	100.6 minutes
Inclination:	100.1 degrees
Apogee:	1,215 kilometres
Perigee:	1,204 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4C

Tianlian 1-03

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Tianlian 1-03
National designator/registration number as used by the State of registry:	Tianlian-1C

State of registry:	China
Date and territory or location of the launch	
Date of the launch:	25 July 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	-
Inclination:	-
Apogee:	-
Perigee:	-
General function of the space object:	Relay communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3C

Beidou-14

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Fourteenth satellite of the Beidou satellite navigation system
National designator/registration number as used by the State of registry:	Beidou-14
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	19 September 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	774 minutes
Inclination:	55 degrees
Apogee:	21,528 kilometres
Perigee:	21,528 kilometres
General function of the space object:	Navigation

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3B

Beidou-15

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Fifteenth satellite of the Beidou satellite navigation system
National designator/registration number as used by the State of registry:	Beidou-15
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	19 September 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	774 minutes
Inclination:	55 degrees
Apogee:	21,528 kilometres
Perigee:	21,528 kilometres
General function of the space object:	Navigation

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3B

Shijian 9A

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Shijian 9A
National designator/registration number as used by the State of registry:	SJ-9A
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	14 October 2012

Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	97.48 minutes
Inclination:	97.9 degrees
Apogee:	645 kilometres
Perigee:	645 kilometres
General function of the space object:	Scientific experiments in space

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 2C

Shijian 9B

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Shijian 9B
National designator/registration number as used by the State of registry:	SJ-9B
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	14 October 2012
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	97.48 minutes
Inclination:	97.9 degrees
Apogee:	645 kilometres
Perigee:	645 kilometres
General function of the space object:	Scientific experiments in space

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 2C

Beidou-16

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Sixteenth satellite of the Beidou satellite navigation system
National designator/registration number as used by the State of registry:	Beidou-16
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	25 October 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	-
Inclination:	-
Apogee:	-
Perigee:	-
General function of the space object:	Navigation

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3C

Huanjing 1C

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Huanjing 1C
National designator/registration number as used by the State of registry:	HJ-1C
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	19 November 2012
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	94.43 minutes
Inclination:	97.37 degrees

Apogee:	499 kilometres
Perigee:	499 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 2C

Yaogan 16

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Yaogan 16
National designator/registration number as used by the State of registry:	YG-16
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	25 November 2012
Territory or location of the launch:	Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	107.3 minutes
Inclination:	63.41 degrees
Apogee:	1,100 kilometres
Perigee:	1,100 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4C

Zhongxing 12

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Zhongxing 12
National designator/registration number as used by the State of registry:	Chinasat-12
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	29 November 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	-
Inclination:	26.8 degrees
Apogee:	50,539 kilometres
Perigee:	207 kilometres
General function of the space object:	Communications and broadcasting

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3B

Gaofen 1

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Gaofen 1 (high-resolution optical observation satellite for land surveying)
National designator/registration number as used by the State of registry:	GF-1
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	26 April 2013
Territory or location of the launch:	Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	97.4 minutes
Inclination:	98.05 degrees

Apogee:	644.5 kilometres
Perigee:	644.5 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 2D

Zhongxing 11

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Zhongxing 11
National designator/registration number as used by the State of registry:	Chinasat-11
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	2 May 2013
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	-
Inclination:	26.6 degrees
Apogee:	41,990 kilometres
Perigee:	200 kilometres
General function of the space object:	Communications and broadcasting

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3B

Shijian 11-05

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Shijian 11-05
National designator/registration number as used by the State of registry:	SJ-11E

State of registry:	China
Date and territory or location of the launch	
Date of the launch:	15 July 2013
Territory or location of the launch:	Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	90 minutes
Inclination:	98 degrees
Apogee:	700 kilometres
Perigee:	700 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 2C

Chuangxin-3

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Chuangxin-3
National designator/registration number as used by the State of registry:	CX-3
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	20 July 2013
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	98.1 minutes
Inclination:	98.07 degrees
Apogee:	673 kilometres
Perigee:	673 kilometres
General function of the space object:	Scientific experiments

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4C

Shiyan-7

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Shiyan-7
National designator/registration number as used by the State of registry:	SY-7
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	20 July 2013
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	98.1 minutes
Inclination:	98.07 degrees
Apogee:	673 kilometres
Perigee:	673 kilometres
General function of the space object:	Scientific experiments

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4C

Shijian-15

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Shijian-15
National designator/registration number as used by the State of registry:	SJ-15
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	20 July 2013
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	98.1 minutes
Inclination:	98.07 degrees

Apogee:	673 kilometres
Perigee:	673 kilometres
General function of the space object:	Scientific experiments

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4C

Yaogan 17

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Yaogan 17
National designator/registration number as used by the State of registry:	YG-17
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	2 September 2013
Territory or location of the launch:	Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	107 minutes
Inclination:	63.4 degrees
Apogee:	1,100 kilometres
Perigee:	1,100 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4C

Fengyun 3C

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Fengyun 3C
National designator/registration number as used by the State of registry:	FY-3C
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	23 September 2013
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	101.4 minutes
Inclination:	98.7 degrees
Apogee:	849.6 kilometres
Perigee:	813.6 kilometres
General function of the space object:	Meteorological satellite

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4C

Shijian 16

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Shijian 16
National designator/registration number as used by the State of registry:	SJ-16
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	25 October 2013
Territory or location of the launch:	Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	96.7 minutes
Inclination:	75 degrees

Apogee:	610 kilometres
Perigee:	610 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4B

Yaogan 18

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Yaogan 18
National designator/registration number as used by the State of registry:	YG-18
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	29 October 2013
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	95 minutes
Inclination:	97.5 degrees
Apogee:	6,887 kilometres
Perigee:	6,879 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 2C

Yaogan 19

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Yaogan 19
National designator/registration number as used by the State of registry:	YG-19

State of registry:	China
Date and territory or location of the launch	
Date of the launch:	20 November 2013
Territory or location of the launch:	Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	109.6 minutes
Inclination:	100.5 degrees
Apogee:	1,220 kilometres
Perigee:	1,200 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 4C

Shiyan 5

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Shiyan 5
National designator/registration number as used by the State of registry:	SY-5
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	25 November 2013
Territory or location of the launch:	Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	99.6 minutes
Inclination:	98.3 degrees
Apogee:	750 kilometres
Perigee:	750 kilometres
General function of the space object:	Scientific experiments

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 2D

Chang'e 3

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Chang'e 3
National designator/registration number as used by the State of registry:	Chang'e 3
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	2 December 2013
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	-
Inclination:	-
Apogee:	380,000 kilometres
Perigee:	200 kilometres
General function of the space object:	Lunar probe

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Other information:	On the surface of the Moon
Launch vehicle:	Long March 3B

Shijian 11-06

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Shijian 11-06
National designator/registration number as used by the State of registry:	SJ-11F
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	31 March 2014
Territory or location of the launch:	Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	90 minutes

Inclination:	98 degrees
Apogee:	700 kilometres
Perigee:	700 kilometres
General function of the space object:	Remote sensing

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 2C

Apstar 7

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of the space object:	Apstar 7
National designator/registration number as used by the State of registry:	-
State of registry:	China
Date and territory or location of the launch	
Date of the launch:	31 March 2012
Territory or location of the launch:	Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period:	1,440 minutes
Inclination:	0.0±0.05 degrees
Apogee:	42,164 kilometres (radius)
Perigee:	42,164 kilometres (radius)
General function of the space object:	Geostationary satellite for communications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle:	Long March 3B

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Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 19 May 2014 from the Permanent Mission of India to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of India to the United Nations (Vienna) has the honour to transmit, in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), information concerning Indian space objects GSAT-14, GSLV R/B, IRNSS-1B and PSLV R/B (see annex).

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Annex

Registration data on space objects launched by India

GSAT-14

Name of the launching State:	India
Appropriate designator of the space object or its registration number:	2014-001A GSAT-14
Date and territory or location of the launch:	
Launch vehicle:	GSLV-D5
Launch date:	5 January 2014
Launch site:	Satish Dhawan Space Centre, Sriharikota, India
Basic orbital parameters:	
Nodal period:	1,436.1 minutes
Inclination:	0.23 degrees
Apogee:	35,811.4 kilometres
Perigee:	35,761.8 kilometres
General function of the space object:	Communications satellite placed at 74 degrees East longitude

GSLV R/B

Name of the launching State:	India
Appropriate designator of the space object or its registration number:	2014-001B GSLV R/B
Date and territory or location of the launch:	
Launch vehicle:	GSLV-D5
Launch date:	5 January 2014
Launch site:	Satish Dhawan Space Centre, Sriharikota, India
Basic orbital parameters:	
Nodal period:	625.3 minutes
Inclination:	19.38 degrees
Apogee:	35,484.1 kilometres
Perigee:	202.4 kilometres
General function of the space object:	Upper stage of the GSLV-D5 launch vehicle

IRNSS-1B

Name of the launching State:	India
Appropriate designator of the space object or its registration number:	2014-017A IRNSS-1B
Date and territory or location of the launch:	
Launch vehicle:	PSLV-C24
Launch date:	4 April 2014
Launch site:	Satish Dhawan Space Centre, Sriharikota, India
Basic orbital parameters:	
Nodal period:	1,436.23 minutes
Inclination:	30.959 degrees
Apogee:	35,880.42 kilometres
Perigee:	35,698.18 kilometres
General function of the space object:	Second satellite of the Indian Regional Navigational Satellite System

PSLV R/B

Name of the launching State:	India
Appropriate designator of the space object or its registration number:	2014-017B PSLV R/B
Date and territory or location of the launch:	
Launch vehicle:	PSLV-C24
Launch date:	4 April 2014
Launch site:	Satish Dhawan Space Centre, Sriharikota, India
Basic orbital parameters:	
Nodal period:	362.23 minutes
Inclination:	19.223 degrees
Apogee:	20,625.48 kilometres
Perigee:	283.12 kilometres
General function of the space object:	Upper stage of the PSLV-C24 launch vehicle

United Nations ST/SG/SER.E/716

Secretariat

Distr.: General
24 June 2014

Original: English

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 30 May 2014 from the Permanent Mission of the United Kingdom of Great Britain and Northern Ireland to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the United Kingdom of Great Britain and Northern Ireland to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information on space object Inmarsat-5 F1 (international designator 2013-073A) (see annex).

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Annex

Registration data on a space object launched by the United Kingdom of Great Britain and Northern Ireland*

Inmarsat-5 F1

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator:	2013-073A
Name of space object:	Inmarsat-5 F1
State of registry:	United Kingdom
Date and territory or location of launch	
Date of launch:	8 December 2013, 1212 hrs UTC
Territory or location of launch:	Baikonur Cosmodrome, Kazakhstan
Basic orbital parameters	
Nodal period:	23 hours 56 minutes
Inclination:	<0.05 degrees
Apogee:	35,786 kilometres
Perigee:	35,786 kilometres
General function of space object:	Communications satellite

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position:	62.6 degrees East
Space object owner or operator:	Inmarsat Global Ltd.
Launch vehicle:	Proton Breeze M

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

United Nations ST/SG/SER.E/717

Secretariat

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13 August 2014
English
Original: French

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 5 June 2014 from the Permanent Mission of France to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of France to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to submit information on space objects launched by France between 1 January and 31 December 2013 (annex I), information on space objects registered by France that re-entered the Earth's atmosphere between 1 January and 31 December 2013 (annex II) and additional information on space objects registered by France as at 31 December 2013 (annex III).

The information in annex I includes registration information on 16 space objects, of which 8 are satellites (table 1) and 8 are launch vehicles (table 2) and information on satellites launched by France for foreign operators (table 3).

The Permanent Mission of France further has the honour to inform the Secretary-General that the French National Registry of Objects Launched into Outer Space contained 318 space objects as at 31 December 2013. Of those objects, 122 were satellites (of which 69 were operational) and 196 were component parts of launchers, such as launcher stages and carrier structures.

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Annex I

Information on space objects launched by France*

Table 1

Registration data on satellites launched by France between 1 January and 31 December 2013

Registration number	*Date of the launch*	*Launch site*	*Name of the launcher*	*Basic orbital characteristics*				*General function of the space object*	*Launch number*	*Remarks*	
				Nodal period (minutes)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*			*Satellites*	*State organization*
2013-005F	6 February 2013	Baikonur, Kazakhstan	Soyuz ST-A	114	52	1 414	1 413	Telecommunications satellite	-	Globalstar M095	France
2013-005E	6 February 2013	Baikonur, Kazakhstan	Soyuz ST-A	114	52	1 414	1 413	Telecommunications satellite	-	Globalstar M078	France
2013-005D	6 February 2013	Baikonur, Kazakhstan	Soyuz ST-A	114	52	1 414	1 413	Telecommunications satellite	-	Globalstar M096	France
2013-005C	6 February 2013	Baikonur, Kazakhstan	Soyuz ST-A	114	52	1 414	1 413	Telecommunications satellite	-	Globalstar M094	France
2013-005B	6 February 2013	Baikonur, Kazakhstan	Soyuz ST-A	114	52	1 414	1 413	Telecommunications satellite	-	Globalstar M093	France
2013-005A	6 February 2013	Baikonur, Kazakhstan	Soyuz ST-A	114	52	1 414	1 413	Telecommunications satellite	-	Globalstar M097	France
2013-022A	14 May 2013	Baikonur, Kazakhstan	Proton	1 436	0	35 798	35 776	Telecommunications satellite	-	EUTELSAT 3D	France
2013-044A	29 August 2013	Kourou, French Guiana	Ariane 5 ECA	1 436	0	35 792	35 782	Telecommunications satellite	A215	EUTELSAT 25B	France

* The data are reproduced in the form in which they were received.

Table 2

Registration data on other space objects launched by France between 1 January and 31 December 2013

Registration number	*Date of the launch*	*Launch site*	*Name of the launcher*	*Basic orbital characteristics*				*General function of the space object*	*Launch number*	*Remarks*	
				Nodal period (minutes)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*			*Launched space object*	*State/ organization*
2013-006C	7 February 2013	Kourou, French Guiana	Ariane 5 ECA	629	6	35 616	269	ESC-A cryogenic upper stage	A212	ESC-A	France
2013-006D	7 February 2013	Kourou, French Guiana	Ariane 5 ECA	583	6	33 253	249	SYLDA carrier structure	A212	SYLDA	France
2013-031E	25 June 2013	Kourou, French Guiana	Soyuz ST-B	276	0	7 692	7 663	Fregat stage	S05	Fregat	France
2013-038C	25 July 2013	Kourou, French Guiana	Ariane 5 ECA	591	4	33 696	202	SYLDA carrier structure	A214	SYLDA	France
2013-038D	25 July 2013	Kourou, French Guiana	Ariane 5 ECA	629	3	35 680	212	ESC-A cryogenic upper stage	A214	ESC-A	France
2013-044C	29 August 2013	Kourou, French Guiana	Ariane 5 ECA	631	4	35 742	263	ESC-A cryogenic upper stage	A215	ESC-A	France
2013-044D	29 August 2013	Kourou, French Guiana	Ariane 5 ECA	620	4	35 175	255	SYLDA carrier structure	A215	SYLDA	France
2013-074B	19 December 2013	Kourou, French Guiana	Soyuz ST-B	-	-	-	-	Fregat stage	S06	Fregat	France

Table 3

Space objects operated by foreign satellite operators that were launched by France between 1 January and 31 December 2013

Note: These space objects are not registered by France.

Registration number	*Date of the launch*	*Launch site*	*Name of the launcher*	*Basic orbital characteristics*				*General function of the space object*	*Launch number*	*Remarks*	
				Nodal period (minutes)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*			*Launched space object*	*State/ organization*
2013-006A	7 February 2013	Kourou, French Guiana	Ariane 5 ECA	1 436	0	35 807	35 767	Telecommunications satellite	A212	Amazonas 3	Brazil
2013-006B	7 February 2013	Kourou, French Guiana	Ariane 5 ECA	1 436	0	35 793	35 780	Telecommunications satellite	A212	Azerspace 1	Azerbaijan
2013-021A	7 May 2013	Kourou, French Guiana	Vettore Europeo di Generazione Avanzata (VEGA)	101	99	820	812	Observation satellite	V02	PROBA V	European Space Agency (ESA)
2013-021B	7 May 2013	Kourou, French Guiana	VEGA	98	98	684	683	Observation satellite	V02	VNREDSat 1	Viet Nam
2013-021C	7 May 2013	Kourou, French Guiana	VEGA	98	98	670	656	Electric solar sail	V02	ESTCube 1	Estonia
2013-027A	5 June 2013	Kourou, French Guiana	Ariane 5 ES	-	-	-	-	Automated Transfer Vehicle, re-entered 2 November 2013	A213	ATV-4	ESA
2013-031A	25 June 2013	Kourou, French Guiana	Soyuz ST-B	288	0	8 069	8 063	Telecommunications satellite	S05	O3b FM5	United Kingdom of Great Britain and Northern Ireland
2013-031B	25 June 2013	Kourou, French Guiana	Soyuz ST-B	288	0	8 069	8 063	Telecommunications satellite	S05	O3b FM4	United Kingdom
2013-031C	25 June 2013	Kourou, French Guiana	Soyuz ST-B	288	0	8 069	8 063	Telecommunications satellite	S05	O3b FM2	United Kingdom

Registration number	Date of the launch	Launch site	Name of the launcher	Basic orbital characteristics				General function of the space object	Launch number	Remarks	
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)			Launched space object	State/ organization
2013-031D	25 June 2013	Kourou, French Guiana	Soyuz ST-B	288	0	8 069	8 063	Telecommunications satellite	S05	O3b PFM	United Kingdom
2013-038A	25 July 2013	Kourou, French Guiana	Ariane 5 ECA	1 436	0	35 794	35 779	Telecommunications satellite	A214	Alphasat I-4A F4	United Kingdom
2013-038B	25 July 2013	Kourou, French Guiana	Ariane 5 ECA	1 436	0	35 789	35 786	Telecommunications satellite	A214	Insat 3D	India
2013-014B	29 August 2013	Kourou, French Guiana	Ariane 5 ECA	1 436	0	35 824	35 748	Telecommunications satellite	A215	GSAT 7	India
2013-074A	19 December 2013	Kourou, French Guiana	Soyuz ST-B	-	-	-	-	Scientific satellite	S06	Gaia	ESA

Annex II

Information provided by France in conformity with article IV, paragraph 3, of the Convention on Registration of Objects Launched into Outer Space on space objects registered by France that re-entered the Earth's atmosphere between 1 January and 31 December 2013*

Registration number	*Date of the launch*	*General function of the space object*	*Date of atmospheric re-entry*
2012-022D	20 May 2011	Ariane 5 SYLDA	21 January 2013
1999-009C	20 February 1999	Ariane 4 stage	11 February 2013
2007-007D	11 March 2007	Ariane 5 SYLDA	6 April 2013
2007-056D	14 November 2007	Ariane 5 SYLDA	20 September 2013

* The registration data are reproduced in the form in which they were received.

Annex III

Additional information provided by France in conformity with article IV, paragraph 2, of the Convention on Registration of Objects Launched into Outer Space on space objects registered by France as at 31 December 2013*

Table 1
French satellites in a low-Earth orbit and still operational

No	*Registration number*	*Satellite*	*Type of orbit*
1	2002-021A	SPOT 5 Earth observation satellite	820 km Sun-synchronous orbit
2	2004-049A	Helios 2A space observation satellite	Polar orbit
3	2006-016B	Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observation (CALIPSO) satellite for three-dimensional characterization of clouds and aerosols	700 km polar orbit
4	2006-063A	Convection, Rotation and Planetary Transits (COROT) satellite for the study of stars and exoplanet detection	896 km polar orbit inclined at 90°
5	2008-032A	French-American Jason-2 oceanography satellite	1 330 km orbit inclined at 66°
6	2009-073A	Helios 2B space observation satellite	Polar orbit
7	2010-028A	Picard microsatellite for solar research	730 km polar orbit
8	2010-054A	Globalstar M079 communications satellite	1 400 km orbit inclined at 52°
9	2010-054B	Globalstar M074 communications satellite	1 400 km orbit inclined at 52°
10	2010-054C	Globalstar M076 communications satellite	1 400 km orbit inclined at 52°
11	2010-054D	Globalstar M077 communications satellite	1 400 km orbit inclined at 52°
12	2010-054E	Globalstar M075 communications satellite	1 400 km orbit inclined at 52°
13	2010-054F	Globalstar M073 communications satellite	1 400 km orbit inclined at 52°
14	2011-033A	Globalstar M083 communications satellite	1 400 km orbit inclined at 52°
15	2011-033B	Globalstar M088 communications satellite	1 400 km orbit inclined at 52°
16	2011-033C	Globalstar M091 communications satellite	1 400 km orbit inclined at 52°
17	2011-033D	Globalstar M085 communications satellite	1 400 km orbit inclined at 52°
18	2011-033E	Globalstar M081 communications satellite	1 400 km orbit inclined at 52°
19	2011-033F	Globalstar M089 communications satellite	1 400 km orbit inclined at 52°
20	2011-076A	ELISA W11 listening system microsatellite	Polar orbit
21	2011-076B	ELISA E24 listening system microsatellite	Polar orbit

* The registration data are reproduced in the form in which they were received.

No.	*Registration number*	*Satellite*	*Type of orbit*
22	2011-076C	ELISA W23 listening system microsatellite	Polar orbit
23	2011-076D	ELISA E12 listening system microsatellite	Polar orbit
24	2011-076F	Pleiades 1A Earth observation satellite	700 km polar orbit
25	2011-080A	Globalstar M084 communications satellite	1 400 km orbit inclined at 52°
26	2011-080B	Globalstar M080 communications satellite	1 400 km orbit inclined at 52°
27	2011-080C	Globalstar M082 communications satellite	1 400 km orbit inclined at 52°
28	2011-080D	Globalstar M092 communications satellite	1 400 km orbit inclined at 52°
29	2011-080E	Globalstar M090 communications satellite	1 400 km orbit inclined at 52°
30	2011-080F	Globalstar M086 communications satellite	1 400 km orbit inclined at 52°
31	2012-047A	SPOT 6 Earth observation satellite	700 km polar orbit
32	2012-068A	Pleiades 1B Earth observation satellite	700 km polar orbit
33	2013-005A	Globalstar M097 communications satellite	1 400 km orbit inclined at 52°
34	2013-005B	Globalstar M093 communications satellite	1 400 km orbit inclined at 52°
35	2013-005C	Globalstar M094 communications satellite	1 400 km orbit inclined at 52°
36	2013-005D	Globalstar M096 communications satellite	1 400 km orbit inclined at 52°
37	2013-005E	Globalstar M078 communications satellite	1 400 km orbit inclined at 52°
38	2013-005F	Globalstar M095 communications satellite	1 400 km orbit inclined at 52°

Table 2
French satellites in geostationary orbit and still operational

No.	*Registration number*	*Satellite*	*Orbital position*
1.	1996-067A	EUTELSAT 48A telecommunications satellite (formerly W48, Eurobird™ 9, Hot Bird™ 2)	48° E
2.	1998-013A	EUTELSAT 16B telecommunications satellite (formerly Eurobird™ 16, Hot Bird™ 4)	16° E
3.	1999-018A	EUTELSAT 21A telecommunications satellite (formerly W6, W3), redeployed and renamed EUTELSAT 48C in 2013	48° E
4.	2000-019A	EUTELSAT 16C telecommunications satellite (formerly SESAT 1)	16° E
5.	2000-028A	EUTELSAT 36A telecommunications satellite (formerly W4)	36° E
6.	2001-011A	EUTELSAT 28A telecommunications satellite (formerly Eurobird™ 1)	28.5° E
7.	2001-042A	EUTELSAT 8 West A telecommunications satellite (formerly Atlantic Bird™ 2)	8° W
8.	2002-035A	EUTELSAT 5 West A telecommunications satellite (formerly Atlantic Bird™ 3)	5° W
9.	2002-038A	EUTELSAT Hot Bird™ 13A telecommunications satellite (formerly Hot Bird™ 6), redeployed and renamed EUTELSAT 8 West C in 2013	7.5° E
10.	2002-040A	EUTELSAT 12 West A telecommunications satellite (formerly Atlantic Bird™ 1)	12.5° W
11.	2002-051A	EUTELSAT 70A telecommunications satellite (formerly W5), redeployed and renamed EUTELSAT 25C then EUTELSAT 33B in 2013	33.1° E
12.	2003-043A	EUTELSAT 33A telecommunications satellite (formerly Eurobird™ 3, eBird™)	33° E
13.	2004-008A	EUTELSAT 7A telecommunications satellite (formerly W3A)	7° E
14.	2005-041B	Syracuse 3A telecommunications satellite	47° E
15.	2006-007B	EUTELSAT 9A telecommunications satellite (formerly Eurobird™ 9A, Hot Bird™ 7A)	9° E
16.	2006-032A	EUTELSAT Hot Bird™ 13B telecommunications satellite (formerly Hot Bird™ 8)	13° E
17.	2006-033B	Syracuse 3B telecommunications satellite	5° W
18.	2008-065A	EUTELSAT Hot Bird™ 13C telecommunications satellite (formerly Hot Bird™ 9)	13° E
19.	2008-065B	EUTELSAT 28B telecommunications satellite (formerly EUTELSAT 48B, W2M)	28.5° E
20.	2009-008B	EUTELSAT 3C telecommunications satellite (formerly Atlantic Bird™ 4A, Hot Bird™ 10), redeployed and renamed EUTELSAT Hot Bird™ 13D in 2013	13° E
21.	2009-016A	EUTELSAT 10A telecommunications satellite (formerly W2A)	10° E
22.	2009-065A	EUTELSAT 36B telecommunications satellite (formerly W7)	36° E
23.	2010-069A	EUTELSAT KA-SAT 9A telecommunications satellite (formerly KA-SAT)	9° E
24.	2011-051A	EUTELSAT 7 West A telecommunications satellite (formerly Atlantic Bird™ 7)	7° W
25.	2011-057A	EUTELSAT 16A telecommunications satellite (formerly W3C)	16° E
26.	2012-062B	EUTELSAT 21B telecommunications satellite (formerly W6A)	21.5° E

No	*Registration number*	*Satellite*	*Orbital position*
27	2012-069A	EUTELSAT 70B telecommunications satellite (formerly W5A)	70.5° E
28	2013-022A	EUTELSAT 3D telecommunications satellite (formerly W3D)	3.1° E
29	2012-069A	EUTELSAT 25B telecommunications satellite (formerly EB 2A)	25.5° E

Table 3
French satellites still in orbit but no longer operational

No.	*Registration number*	*Satellite*	*Orbit*
1.	1965-096A	A1 experimental satellite (Astérix)	Low-Earth orbit (LEO)
2.	1965-101A	FR1 technological satellite	LEO
3.	1966-013A	Diapason D1 experimental satellite	LEO
4.	1967-011A	Diadème 1 experimental satellite	LEO
5.	1967-014A	Diadème 2 experimental satellite	LEO
6.	1971-071A	Eole 1 (CAS-A) experimental data-collection satellite	LEO
7.	1974-101A	Symphonie 1 experimental telecommunications satellite	Geostationary Earth orbit (GEO)
8.	1975-010A	Starlette scientific satellite	LEO
9.	1975-077A	Symphonie 2 experimental telecommunications satellite	GEO
10.	1983-058A	EUTELSAT I-F1 (ECS 1) telecommunications satellite (European Space Agency (ESA))	GEO
11.	1984-081A	EUTELSAT I-F2 (ECS 2) tel. communications satellite (ESA)	GEO
12.	1984-081B	Telecom 1A telecommunications satellite	GEO
13.	1985-035B	Telecom 1B telecommunications satellite	GEO
14.	1986-019A	SPOT 1 Earth observation satellite (deorbiting manoeuvres effected in November 2003 to lower the satellite's perigee to below 600 km with a view to achieving re-entry within 25 years)	LEO
15.	1987-078B	EUTELSAT I-F4 (ECS 4) telecommunications satellite	GEO
16.	1988-018B	Telecom 1C telecommunications satellite	GEO
17.	1988-063B	EUTELSAT I-F5 (ECS 5) telecommunications satellite (ESA)	GEO
18.	1988-098A	TDF1 live television satellite	GEO
19.	1990-005A	SPOT 2 Earth observation satellite (final deorbiting manoeuvres effected on 29 July 2009 to lower the satellite's perigee to below 600 km with a view to achieving re-entry within 25 years)	LEO
20.	1990-063A	TDF2 live television satellite	GEO
21.	1990-079B	EUTELSAT II-F1 telecommunications satellite	GEO
22.	1991-003B	EUTELSAT II-F2 telecommunications satellite	GEO
23.	1991-050E	Satellite for Amateur Radio Astronomy (SARA) experimental microsatellite	LEO
24.	1991-083A	EUTELSAT II-F3 telecommunications satellite	GEO
25.	1991-084A	Telecom 2A telecommunications satellite	GEO

No.	*Registration number*	*Satellite*	*Orbit*
26.	1992-021A	Telecom 2B telecommunications satellite	GEO
27.	1992-041B	EUTELSAT II-F4 telecommunications satellite	GEO
28.	1992-052C	S80/T technological satellite	LEO
29.	1993-031B	ARSENE amateur radio satellite (perigee ~17 000 km)	Geostationary transfer orbit (GTO)
30.	1993-061A	SPOT 3 Earth observation satellite (orbit >800 km)	LEO
31.	1993-061B	Stella scientific satellite (orbit 800 km)	LEO
32.	1995-016B	Hot Bird™ 1 (EUTELSAT II-F6) telecommunications satellite	GEO
33.	1995-033A	Helios 1A space observation satellite (deactivated in February 2012 following deorbiting manoeuvres)	LEO
34.	1995-033B	Cerise research satellite (orbit ~600 km)	LEO
35.	1995-067A	Telecom 2C telecommunications satellite	GEO
36.	1996-044B	Telecom 2D telecommunications satellite (deactivated in November 2012 following deorbiting manoeuvres)	GEO
37.	1997-049A	W75 telecommunications satellite (formerly Eurobird™ 4, Hot Bird™ 3) (deactivated in July 2011 following deorbiting manoeuvres)	GEO
38.	1998-017A	SPOT 4 Earth observation satellite, 820 km Sun-synchronous orbit (ceased operating on 29 June 2013)	LEO
39.	1998-056A	EUTELSAT W2 telecommunications satellite (deactivated in March 2010 following deorbiting manoeuvres)	GEO
40.	1998-057A	EUTELSAT 25A telecommunications satellite (formerly Eurobird™ 2, Hot Bird™ 5), redeployed and renamed EUTELSAT 4B in 2013 (ceased operating in September 2013 following deorbiting manoeuvres)	GEO
41.	1999-064A	Helios 1B observation satellite (withdrawn from service on 21 October 2004 with a perigee of ~630 km)	LEO
42.	1999-064B	Clémentine experimental satellite (perigee ~600 km)	LEO
43.	2000-052A	Eurobird™ 4A telecommunications satellite (formerly W1) (deactivated in February 2012 following deorbiting manoeuvres)	GEO
44.	2001-055A	French-American Jason-1 oceanography satellite, 1 300 km orbit inclined at 66° (mission ended on 3 July 2013)	LEO
45.	2002-021B	Idefix amateur radio satellite (attached to third stage of Ariane 4-V151 launcher, orbit ~800 km)	LEO
46.	2004-025C	DEMETER scientific microsatellite (scientific use terminated in December 2010, deactivated in February 2011, orbit 650 km)	LEO

No.	*Registration number*	*Satellite*	*Orbit*
47.	2004-049C	Essaim 1 satellite for characterization of Earth's electromagnetic environment (ceased operating in October 2010; re-entry in less than 25 years)	LEO
48.	2004-049D	Essaim 2 satellite for characterization of Earth's electromagnetic environment (ceased operating in October 2010; re-entry in less than 25 years)	LEO
49.	2004-049E	Essaim 3 satellite for characterization of Earth's electromagnetic environment (ceased operating in October 2010; re-entry in less than 25 years)	LEO
50.	2004-049F	Essaim 4 satellite for characterization of Earth's electromagnetic environment (ceased operating in October 2010; re-entry in less than 25 years)	LEO
51.	2004-049G	Polarization and Anisotropy of Reflectances for Atmospheric Sciences coupled with Observations from a Lidar (PARASOL) microsatellite for characterization of the radiative and microphysical properties of clouds and aerosols, 700 km polar orbit (ceased operating on 18 December 2013)	LEO
52.	2009-008C	SPIRALE A experimental satellite (deactivated at the beginning of 2011)	GTO
53.	2009-008D	SPIRALE B experimental satellite (deactivated at the beginning of 2011)	GTO
54.	2010-056A	EUTELSAT W3B telecommunications satellite (failed launch into geostationary orbit, remains in GTO)	GTO
55.	2012-006H	Radiation On Bipolar for University Satellite Test Application (ROBUSTA) CubeSat (satellite lost shortly after launch)	LEO

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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 4 June 2014 from the Permanent Mission of Lithuania to the United Nations addressed to the Secretary-General

The Permanent Mission of Lithuania to the United Nations, in accordance with General Assembly resolution 1721 B (XVI) of 20 December 1961, article IV of the Convention on Registration of Objects Launched into Outer Space (resolution 3235 (XXIX), annex) and resolution 62/101 of 17 December 2007, has the honour to transmit information concerning the first Lithuanian space objects LitSat-1 and LituanicaSat-1, which were launched on 28 February 2014 (see annex).

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Annex

Registration data on space objects launched by Lithuania*

LitSat-1

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator:	1998-067EP
Name of the space object:	LitSat-1
National designator/registration number:	The national registry has not yet been established
State of registry:	Lithuania
Other launching States:	United States of America
Date and territory or location of the launch	
Date of the launch:	28 February 2014 at 0730 hrs UTC
Territory or location of the launch:	International Space Station (ISS)
Basic orbital parameters	
Nodal period:	92.83 minutes
Inclination:	51.65 degrees
Apogee:	422 kilometres
Perigee:	417 kilometres
General function of the space object:	Testing of the functioning of general satellite systems (power supply, radio communications, solar batteries), testing of the Global Positioning System/Global Navigation Satellite System receiver in space, testing of the linear radio transponder and collection of satellite attitude data.
Date of decay/re-entry/de-orbit:	28 September 2014 at 0730 hrs

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Date when space object is no longer functional:	28 September 2014 at 0730 hrs
Physical conditions when space object is moved to a disposal orbit:	Satellite re-entry into the Earth's atmosphere and destruction in the atmosphere
Website:	www.litsat1.eu
Space object owner or operator:	Lithuanian Space Association and Kaunas University of Technology
Other information:	On 9 January 2014 at 1.07 p.m. Eastern Standard Time, the spacecraft Cygnus Orb-1, carrying LitSat-1 to ISS, was launched from Wallops Island, Virginia, United States. LitSat-1 was deployed from ISS on 28 February at 0730 hours UTC by astronaut Koichi Wakata (amateur radio call-sign "KC5ZTA").

LituanicaSat-1

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator:	1998-067EN
Name of the space object:	LituanicaSat-1
National designator/registration number:	The national registry has not yet been established
State of registry:	Lithuania
Other launching States:	United States of America
Date and territory or location of the launch	
Date of the launch:	28 February 2014 at 0730 hrs UTC
Territory or location of the launch:	International Space Station
Basic orbital parameters	
Nodal period:	92.85 minutes
Inclination:	51.65 degrees
Apogee:	423 kilometres
Perigee:	418 kilometres

General function of the space object:	Technology demonstrations developed on the Arduino open-source electronics prototyping platform to collect Earth images from space, test solar cells for future satellites and test an FM voice repeater to extend radio communication distances.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website:	www.kosmonautai.lt/en/satellite
Space object owner or operator:	Vilnius University and Innovative Engineering Projects, NPO
Other information:	On 9 January 2014 at 1.07 p.m. Eastern Standard Time, the spacecraft Cygnus Orb-1, carrying LituanicaSat-1 to ISS, was launched from Wallops Island, Virginia, United States. LituanicaSat-1 was deployed from ISS on 28 February at 0730 hrs UTC by astronaut Koichi Wakata (amateur radio call-sign "KC5ZTA").

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Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 20 June 2014 from the Permanent Mission of Nigeria to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Nigeria to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (resolution 3235 (XXIX), annex), has the honour to transmit information concerning space objects NigeriaSat-2 and NigeriaSat-X (see annex).

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Annex

Registration data on space objects launched by Nigeria*

NigeriaSat-2

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator:	2011-044B
Name of the space object:	NigeriaSat-2 (N2)
National designator/registration number:	N2
State of registry:	Nigeria (Ministry of Communication Technology)
Date and territory or location of the launch	
Date of the launch:	17 August 2011 at 0712 hours UTC
Territory or location of the launch:	Yasny launch base, Russian Federation
Basic orbital parameters	
Nodal period:	98.5 minutes
Inclination:	98.2 degrees
Apogee:	701.7 kilometres
Perigee:	688 kilometres
General function of the space object:	N2 is an Earth observation mission. It is a space-based optical sensor system that provides accurate and timely images of the Earth. The N2 imaging payload provides very high resolution 2.5-m panchromatic and 5-m, 5-band multispectral high-resolution imaging. N2 is a contributing sensor to the Disaster Monitoring Constellation. Imagery transmitted to ground stations will be used for humanitarian, environmental and commercial applications.
Remarks:	Additional information has been provided by the Russian Federation in ST/SG/SER.E/641.

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator:	National Space Research and Development Agency, Nigeria

NigeriaSat-X

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator:	2011-044C
Name of the space object:	NigeriaSat-X (NX)
National designator/registration number:	NX
State of registry:	Nigeria (Ministry of Communication Technology)
Date and territory or location of the launch	
Date of the launch:	17 August 2011 at 0712 hours UTC
Territory or location of the launch:	Yasny launch base, Russian Federation
Basic orbital parameters	
Nodal period:	98.8 minutes
Inclination:	98.18 degrees
Apogee:	716.9 kilometres
Perigee:	697.6 kilometres
General function of the space object:	NX is an Earth observation mission. It is a space-based optical sensor system that provides accurate and timely images of the Earth. The NX imaging payload provides medium-resolution 22-m ground-sample distance, 3-band multispectral imaging. NX is a contributing sensor to the Disaster Monitoring Constellation. Imagery transmitted to ground stations will be used for humanitarian, environmental and commercial applications.
Remarks:	Additional information has been provided by the Russian Federation in ST/SG/SER.E/641.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator:	National Space Research and Development Agency, Nigeria

United Nations ST/SG/SER.E/720

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Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 25 June 2014 from the Permanent Mission of Germany to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Germany to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information concerning space object WREN (see annex).

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Please recycle

Annex

Registration data on a space object launched by Germany*

WREN

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator:	2013-066V
Name of the space object:	WREN
National designator/registration number:	D-R051
State of registry:	Germany
Other launching States:	Italy, Russian Federation
Date and territory or location of the launch	
Date of the launch:	21 November 2013 UTC
Territory or location of the launch:	Yasny launch base, Russian Federation
Basic orbital parameters	
Nodal period:	97.02 minutes
Inclination:	97.8 degrees
Apogee:	638 kilometres
Perigee:	594 kilometres
General functions of the space object:	Testing of miniaturized plasma thrusters, a 3-axis control and a new image-based navigation system

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator:	StaDoKo UG, Krugenofen 72, D-52066, Aachen
Launch vehicle:	Dnepr

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.